

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	455766	((read adj2 only) or rom)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:02
L2	9854	((read adj2 only) or rom) with ("near" ajd2 field)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:42
L3	151685	(al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 (pattern\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:50
L4	234189	(al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 (pattern\$4 or etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:52
L5	1435	((read adj2 only) or rom or CD) same l4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:51
L6	103	l2 and l5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:06
L7	95887	(al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 (dispers\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:11
L8	1113	l4 same l7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:08
L9	129150	(al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 (etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:08

EAST Search History

L10	129150	I4 same I9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:08
L11	424	I7 same I9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:08
L12	97999	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) adj2 (layer\$1 or film\$1)) near10 (pattern\$4 or etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:11
L13	61659	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) adj2 (layer\$1 or film\$1)) near10 (etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:12
L14	123	I7 same I13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:10
L15	11061	(al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near10 (dispers\$6 with (dielectric or silica or titania or "sio. sub.2" or alumina))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:56
L16	267	I12 and I15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:15
L17	19	I12 same I15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:13
L18	248	I16 not I17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:16
L19	8688	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 dispers\$6) with (dielectric or silica or titania or "sio. sub.2" or alumina)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:58

EAST Search History

L20	31	I19 same (mask or photomask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:59
L21	34945	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near3 (particle or microparticle or powder\$4 or nanoparticle or particulate)) with dispers\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:57
L22	37681	((pd or pt or platinum or palladium ni or nickel or al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near3 (particle or microparticle or powder\$4 or nanoparticle or particulate)) with dispers\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:25
L23	76465	(dispers\$6 with (dielectric or silica or titania or "sio.sub.2" or alumina))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 11:58
L24	190	I22 same (mask or photomask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:22
L25	180	I24 not I20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:01
L26	37	I22 and (mask or photomask).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:25
L27	351813	((pd or pt or platinum or palladium ni or nickel or al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near3 (particle or microparticle or powder\$4 or nanoparticle or particulate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:33
L28	12878	(repair\$4 or fix\$6) near5 (mask or photomask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:36

EAST Search History

L29	413	I28 and I27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:27
L30	31	I28 same I27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:27
L31	10579	(correct\$6) near5 (mask or photomask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:33
L32	319	I31 same I28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:35
L33	187	I32 and @ad<"20010125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:54
L34	3	I31 same I27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:35
L35	9596	((repair\$4 or fix\$6 or correct\$6) near5 (mask or photomask)).ab,ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:38
L36	43	I27 and I35	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:42
L37	54	((read adj2 only) or rom) with ("near" adj2 field)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:43
L38	135	((read adj2 only) or rom) with (("near" adj2 field) or (super near5 resolution))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:43

EAST Search History

L39	62	l38 and @ad<"20010125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:04
L40	495	((read adj2 only) or rom or CD) with l4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:53
L41	157732	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic) near5 (layer or film)) with (pattern\$4 or etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:52
L42	166132	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic or reflective or reflection) near5 (layer or film)) with (pattern\$4 or etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:53
L43	1076	((read adj2 only) or rom or CD) same l42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:54
L44	102127	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic or reflective or reflection) near5 (layer or film)) with (etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:53
L45	518	((read adj2 only) or rom or CD) same l44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:08
L46	279	l45 and @ad<"20010125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:54
L47	544178	((optical or laser or information) near5 (medium or media or disk or disc))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:55

EAST Search History

L48	304610	((optical or laser or information) near5 (medium or media or disk or disc)).ti, ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:10
L49	12	I48 and I46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 12:56
L50	871	(track\$4) same I44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:09
L51	500	(track\$4) with I44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:09
L52	193	(form\$6 near5 track\$4) with I44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:12
L53	9	I48 and I52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:10
L54	99729	((al or aluminum or au or gold or cu or copper or ag or silver or metal or metallic or pd or pt or palladium or platinum) adj2 (layer\$1 or film\$1)) near10 (pattern\$4 or etch\$6 or liftoff or "lift-off" or (lift adj2 off))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:11
L55	163	(form\$6 near5 track\$4) with I54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:12
L56	269	(form\$6 near5 track\$4) same I54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:12

EAST Search History

L57	357	((form\$6 or pattern) near5 track\$4) same I54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:13
L58	39	I48 and I57	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 13:57
L59	4721	((au or gold or silver) same dispers\$6) same polymer\$6)	USPAT	OR	ON	2006/05/08 13:58
L60	21	I48 and I59	USPAT	OR	ON	2006/05/08 13:59
L61	188	((repair\$4 or fix\$6 or correct\$6) near5 (mask or photomask)) with white)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:45
L62	181	((mask or photomask) with (white adj2 defect\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:39
L63	121	(polish or lap\$6 or remove or surface) same (I61 or I52)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:40
L64	121	(polish\$4 or lap\$6 or remove or surface) same (I61 or I52)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:41
L65	62	(polish\$4 or lap\$6 or remove or surface) same (I61 or I62)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:41
L66	1	(polish\$4 or lap\$6) same (I61 or I62)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:43
L67	25337	(polish\$4 or lap or lapping or smooth\$4) same (mask or photomask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:47

EAST Search History

L68	13	l67 and (l61 or l62)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:43
L69	22207	((repair\$4 or fix\$6 or correct\$6) near5 (mask or photomask)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:45
L70	27615	((repair\$4 or fix\$6 or correct\$6 or defect\$4) near5 (mask or photomask)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:46
L71	2046	l67 and l70	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:46
L72	512	l67 same l70	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:46
L73	1448418	(polish\$4 or lap or lapping or smooth\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:47
L74	375613	(polish\$4 or lap or lapping)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 14:47
L75	211	l70 same l74	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 15:44
L76	2	jp-55153331-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 15:45

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L2: Entry 2 of 3

File: JPAB

Mar 27, 1981

PUB-NO: JP356030722A

DOCUMENT-IDENTIFIER: JP 56030722 A

TITLE: CORRECTION OF WHITE-SPOTTED DEFECT ON PHOTO MASK

PUBN-DATE: March 27, 1981

INVENTOR-INFORMATION:

NAME

COUNTRY

MIYAUCHI, TAKEOKI

MITANI, MASAO

HONGO, MIKIO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HITACHI LTD

APPL-NO: JP54106010

APPL-DATE: August 22, 1979

US-CL-CURRENT: 430/5

INT-CL (IPC): H01L 21/30

ABSTRACT:

PURPOSE: To accurately and quickly correct white-spotted defects on the photo mask by a method wherein pulverized metal powder is placed on the photo mask covering white-spotted sections and the powder is dissolved and adhered to the defective sections by irradiating a laser beam.

CONSTITUTION: When there is the white-spotted defect in a normal Cr pattern 2 on a glass substrate 1, pulverized powder of Cr, Ni, Fe, Co, or their alloy is sprinkled in such way that it is covering the white-spotted sections. And, the laser beam which is matched to the shape and size of the defect is irradiated. The powder 4 which has received the laser beam 5 is changed into a molten and solidified film and the defective section is corrected by this film 6. In order to give a strong adhesive power to the molten and solidified film, the laser beam with a wide pulse width or a continuous oscillation laser beam is to be used. With this method used, the correction of the white-spotted defect on the photo mask can be performed in a half day, for which several days were required before, thereby enabling to sharply reduce the time required, to reduce the length of the manufacturing process and to simplify the process of the correction.

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L2: Entry 3 of 3

File: DWPI

Mar 27, 1981

DERWENT-ACC-NO: 1981-35114D

DERWENT-WEEK: 198120

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TITLE: Repairing mask pattern defects in metal photomask - by depositing fine particle layer on metal mask pattern and irradiating with laser

PATENT-ASSIGNEE:

ASSIGNEE

CODE

HITACHI LTD

HITA

PRIORITY-DATA: 1979JP-0106010 (August 22, 1979)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

☐ [JP 56030722 A](#)

March 27, 1981

000

INT-CL (IPC): H01L 21/30

ABSTRACTED-PUB-NO: JP 56030722A

BASIC-ABSTRACT:

Process comprises (a) depositing a fine particle layer on a metal mask pattern so as to cover the mask pattern defect, the fine particle layer consisting of metal and/or metallic oxide; and (b) directing a laser beam onto the fine particle layer whereby the fine particles are fused to the metal mask pattern.

The metal photomask may be a Cr photomask. The fine particles may be Cr, Ni, Fe or Co particles. The particle size is below 1 micron. Repairing of the metal mask pattern defect of the metal photomask can be carried out with ease.

TITLE-TERMS: REPAIR MASK PATTERN DEFECT METAL PHOTOMASK DEPOSIT FINE PARTICLE LAYER
METAL MASK PATTERN IRRADIATE LASER

DERWENT-CLASS: G06 L03

CPI-CODES: G06-E02; L03-D03B;

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DERWENT-ACC-NO: 1981-35114D

DERWENT-WEEK: 198120

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TITLE: Repairing mask pattern defects in metal
photomask - by depositing fine particle layer on metal mask
pattern and irradiating with laser

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PRIORITY-DATA: 1979JP-0106010 (August 22, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 56030722 A	March 27, 1981	N/A
000 N/A		

INT-CL (IPC): H01L021/30

ABSTRACTED-PUB-NO: JP 56030722A

BASIC-ABSTRACT:

Process comprises (a) depositing a fine particle layer on a metal mask pattern so as to cover the mask pattern defect, the fine particle layer consisting of metal and/or metallic oxide; and (b) directing a laser beam onto the fine particle layer whereby the fine particles are fused to the metal mask pattern.

The metal photomask may be a Cr photomask. The fine particles may be Cr, Ni, Fe or Co particles. The particle size is below 1 micron. Repairing of the metal mask pattern defect of the metal photomask can be carried out with ease.

TITLE-TERMS: REPAIR MASK PATTERN DEFECT METAL PHOTOMASK DEPOSIT FINE PARTICLE
LAYER METAL MASK PATTERN IRRADIATE LASER

DERWENT-CLASS: G06 L03

CPI-CODES: G06-E02; L03-D03B;